

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/23483

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : B05D 7/00, 7/24

US CL : 427/162, 212, 214, 215, 216, 220; 257/E29.071

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 427/162, 212, 213.3, 214, 215, 216, 220; 257/E29.071, 788

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
none

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
Please See Continuation Sheet

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X,P ---	US 2004/0101976 A1 (PENG et al) 27 May 2004 (27.05.2004), entire document, including figures.	1-20, 23-48, and 50
Y,P		21, 22, 49
Y	US 6,020,457 A (KLIMASH et al) 01 February 2000 (01.02.2000), entire document, especially the abstract.	21, 22
Y	US 2003/0093092 A1 (WEST et al) 15 May 2003 (15.05.2003), paragraph [0081].	49
A	KR 2002-072671 A (JUN et al) 18 September 2002 (18.09.2002), abstract.	1-50
A	US 6,261,779 B1 (BARBERA-GUILLEM et al) 17 July 2001 (17.07.2001), entire document.	1-50
A,P	US 6,49,138 B2 (ADAMS et al) 18 November 2003 (18.11.2003), entire document.	1-50
A	US 2003/0109056 A1 (VOSSMBYER et al) 12 June 2003 (12.06.2003), entire document.	1-50
A,P	US 2003/0173541 A1 (PENG et al) 18 September 2003 (18.09.2003), entire document.	1-50

Further documents are listed in the continuation of Box C.

See patent family annex.

### \* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"T"

later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"E" earlier application or patent published on or after the international filing date

"X"

document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"Y"

document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"O" document referring to an oral disclosure, use, exhibition or other means

"&"

document member of the same patent family

"P" document published prior to the international filing date but later than the priority date claimed

Date of the actual completion of the international search

03 February 2005 (03.02.2005)

Date of mailing of the international search report

23 FEB 2005

Name and mailing address of the ISA/US

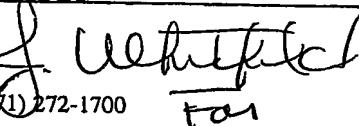
Authorized officer

Mail Stop PCT, Attn: ISA/US  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

Shrive Beck

Faxsimile No. (703) 305-3230

Telephone No. (571) 272-1700

  
for

**INTERNATIONAL SEARCH REPORT**International application No.  
PCT/US04/23483**C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2002/0013283 A1 (TOMALIA et al) 31 January 2002 (31.01.2002), entire document.	1-50
A	US 5,938,934 A (BALOGH et al) 17 August 1999 (17.08.1999), entire document.	1-50
A	US 2001/0011109 A1 (TOMALIA et al) 02 August 2001 (02.08.2001), entire document.	1-50
A	WO 00/46839 A2 (LAKOWICZ et al) 10 August 2000 (10.08.2000), entire document.	1-50
A,P	WO 2004/031732 A2 (PENG et al) 15 April 2004 (15.04.2004), entire document.	1-50

**INTERNATIONAL SEARCH REPORT**

International application No.  
PCT/US04/23483

**Continuation of B. FIELDS SEARCHED Item 3:**

EAST electronic database search for US patents, PG publications, Derwent abstracts, JPAB, EPAB, and IBM technical disclosure bulletins

search terms: dendron, dendrimer, nanoparticle, nanocrystal, quantum dot, nanoparticulate, stabilize, sheath, passivate, sol gel, colloid, and variations and combinations thereof